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INFORMATION REPORT

PREPARED AND DISSEMINATED BY
 CENTRAL INTELLIGENCE AGENCY

COUNTRY
 Hungary

SUBJECT
 Description of Bituminous Coal Mine No 14,
 Tatabanya Coal Mining Trust/Coal Mines in
 Tatabanya and Oroszlany Trusts/Flooding/
 Personalities

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2. The Coal Mining Ministry [Szenbanyaszati Miniszterium] 4 Marko ut, Budapest, controls the coal mining industry in Hungary. There are five coal mining trusts under the Ministry, [redacted] listed in the order of their production: 50X1-HUM

- (a) Tatabanya [TCMT]
- (b) Pecs
- (c) Dorogi
- (d) Borsodi aka Nogradi
- (e) Komloi

TCMT and Pecs are constantly shifting between first and second place; however, [redacted] the majority of the time TCMT is in first place. 50X1-HUM

3. The coal mines in the TCMT district are located in the vicinity of five towns: Tatabanya, Oroszlany, Ujvaros, Banihida, and Alsogalla. All mines in the TCMT district are shaft mines producing bituminous coal. These mines are all numbered consecutively with the exception of No 13 which is given a name because the miners are superstitious. The No 13 mine is called Sikvölgyi. There are 13 active mines in production. The missing numbers cover mines which have been either worked out or flooded out of production. The mines in production are No 3 - 3A - 5A - 6 - 7 - 8 - 9 - 10 - 11 - 12 - Sikvölgyi - 14 and 15.
4. About 1951, OCMT was placed under the supervision of TCMT. There are four active bituminous mines in the OCMT district. These are all shaft mines averaging about 80 meters deep. Mine No 16 is worked out and is not in production. OCMT active mines are No 17 - 18 - 19 and 20.
5. TCMT mine 3A was flooded out of production shortly before the October 1956 revolution. [redacted] a large amount of water came into the mine unexpectedly. It was being reconstructed [redacted] and is likely back into production by now [June 1957]. 50X1-HUM

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TCMT Mine No 14

6. TCMT mine No 14 was opened in the fall of 1953. It is a shaft mine, 180.6 meters deep, from which point horizontal tunnels have been bored following the 30 meter thick coal veins. The coal is of excellent quality, averaging about five thousand calories. There are between one thousand and 1200 workers at No 14, two-thirds of whom are convicts (political prisoners) who wear striped clothes. The miners work three shifts daily, six days weekly from 6AM to 2PM; 2PM to 10PM and 10PM to 6AM. Twice monthly the mine works on Sunday in order to keep up with the quota. [redacted] the mine produces about five thousand tons of coal daily. About 40% of this production comes from the morning shifts and the remainder is equally divided between the other two shifts.
7. The mine is fairly well mechanized. There is an overhead moving cable system throughout the mine to which the tracked mine cars, each holding 630 to 650 kilograms, are attached and drawn to a central point where the coal is placed in cable cars which carry it to the outside through horizontal shaft having a 27% grade. This cable travels one meter per second and is operated by a 35HP, 3.5 KV, 1440 RPM motor. After reaching the surface, it is moved by overhead cable cars to a central collection point for all the Tatabanya mines. From this central location aerial cableways lead to the Banhida and Tatabanya thermal power plants. Coal is also shipped from here by rail throughout Hungary; and some exported to the USSR.
8. [redacted] there is at least one USSR type coal cutting machine in the mine. This machine is called the "Donbas Kombajn". [redacted] it is equipped with a 27KW - 100 HP motor and is moved by a cable which breaks frequently. The production of the machine is figured by the minute but it takes four hours to replace a broken cable. Also the coal contains a large amount of quartz and each time a cutting knife strikes a piece of quartz, the knife breaks. They also use coal drilling machines and an explosive called paxit. Actually more coal is dug by manpower than by machines. There are about 20 conveyor type coal loaders in the mine known as Kota, a Hungarian made machine.
9. [redacted] the majority of high quality coal produced at No 14 is exported to the USSR. The Soviets are only interested in getting coal of three thousand calories or better and all coal over three thousand calories is exported. The remainder is used domestically and mixed at the ratio of 15% good coal with 85% poor coal.

Water

10. Water is the big problem in No 14 mine. Three chambers have been cut under the coal seam for water collection. One chamber holds 800 cubic meters of water and the other two each hold 900 cubic meters of water. The water is pumped above ground by a series of electrically operated pumps from these three gathering chambers or water reservoirs. Number one and two reservoirs are pumped alternately with number three in continual reserve. The amount of water entering the mining area is 13.5 m³ or 3580 gallons per minute. The installed pumping equipment is sufficient to pump 13,210 gallons per minute from the mine. The pumps operate continuously. If the electrical supply should fail for three hours, the underground gathering reservoirs would be filled and the entire mine flooded. The following pumps are in this mine:

<u>Quantity</u>	<u>Make</u>	<u>Pumping Capacity</u>	<u>Pumping Height in Feet</u>
1	Mavag	5m ³ /min	590.58
6	Dorogi	5m ³ /min	787.44
2	Erhardt Semer	2.5m ³ /min	787.44
4	Jeger	2.5m ³ /min	721.82

Maximum capacity 50m³/min or 13,210 gallons.

11. The pumps are driven by Siemens and Brown, Boveri Co Ltd, motors as follows:

5m³/min pumps by 330 KW, 3.5 KV, 1440 RPM motors.

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The older 2.5m³/min pumps by 200 KW, 3.5 KV, 1440 RPM motors.

The newer 2.5m³/min pumps by 185 KW, 3.5 KV, 1440 RPM motors.

13. All the water pumps are installed underground. The water is pumped to a reservoir above ground where it is used by the Tatabanya thermal power plant for cooling puposes.

Electrical Supply

14. The electric power for operating No 14 comes from the Tatabanya thermal power plant. The transformer substation is above ground and consists of two transformers: one is rated at one thousand KVA, 22KV/3.6KV and the other 500 KVA, 22KV/3.6KV. However, in November 1956, this latter transformer was being changed to one thousand KVA, 22KV/3.6KV. Cables from the transformers connect with 3.5KV switchgear underground.

Safety Precautions

15. There are no automatic signalling devices to warn miners of carbon monoxide at No 14 mine. The test used regularly for carbon monoxide is to take a large bottle filled with water underground. The water is then poured from the bottle, and a cap placed on it. The air in the bottle is then analyzed. In the 30 months [redacted] two deaths at the mine. [redacted] these were caused by carbon monoxide poisoning.
16. The TCMT mines have excellent first aid and life saving teams.

Guards

17. Istvan Angyal, an ex-miner, [redacted] Captain in the plant guard section of AVH is head of the mine police at TCMT. There are 40 guards and 10 officers, under his command, at No 14 mine. These guards primarily are responsible for the convict laborers and are also on the look-out for sabotage.

Personalities

18. [redacted]
- (a) Sandor Czottner - head of the coal mining ministry in Budapest. He was formerly superintendent of the Manfred Weiss plant. [redacted]
- (b) Istvan Gal - [redacted] manager of TCMT. He was formerly a clerk in a textile store in Hungary [redacted]
- (c) Laszlo Nemeth - [redacted] He is chief engineer of mine 3A [redacted]
- (d) Ferenc Szabo - manager of TCMT mine No 14. He is a former coal miner [redacted]
- (e) Sandor Kóhalmi - [redacted] former coal miner and party secretary at mine No 14. [redacted]

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- (f) Jozsef Sashegyi - [redacted] He is chief engineer of No 14 [redacted]
- (g) Peter Patkos - [redacted] He is assistant chief engineer of mine #14 [redacted]
- (h) Gyorgy Kalman - [redacted] He is production superintendent of Mine No 14. [redacted]
- (i) Jozsef Szigetvary - [redacted] He is head of machinery department in the TCMT [redacted] He has three assistants who are not Communist Party members. They are Mandor Baranyai, Jozsef Stefanek and Mihaly Feldhoffer.
- (j) Dr Jozsef Szentirmay - [redacted] head of the Legal Department of TCMT.
- (k) Jozsef Hajnal - [redacted] He is division engineer of the TCMT [redacted]
- (l) Mihaly Solymos - chief geologist of the TCMT. [redacted]
- (m) Imre Eff - chief electrical engineer of TCMT reporting to Jozsef Szigetvary. [redacted]
- (n) Endre Hajnal - chief mechanical engineer of TCMT reporting to Jozsef Szigetvary. [redacted]
- (o) Imre Barany - chief mining engineer of OCMT. [redacted]

Vacation

19. TCMT civilian miners and supervisory employees, except convict laborers, are entitled to three-days vacation after one year service and one day for each additional year of service up to a maximum of one month.
20. [redacted] privileged to go to resort areas where [redacted] discounts on room and board. This amounted to about 70% discount from prices charged other individuals. [redacted] in order to be eligible for the discount, one is compelled to attend regular political seminars while vacationing.

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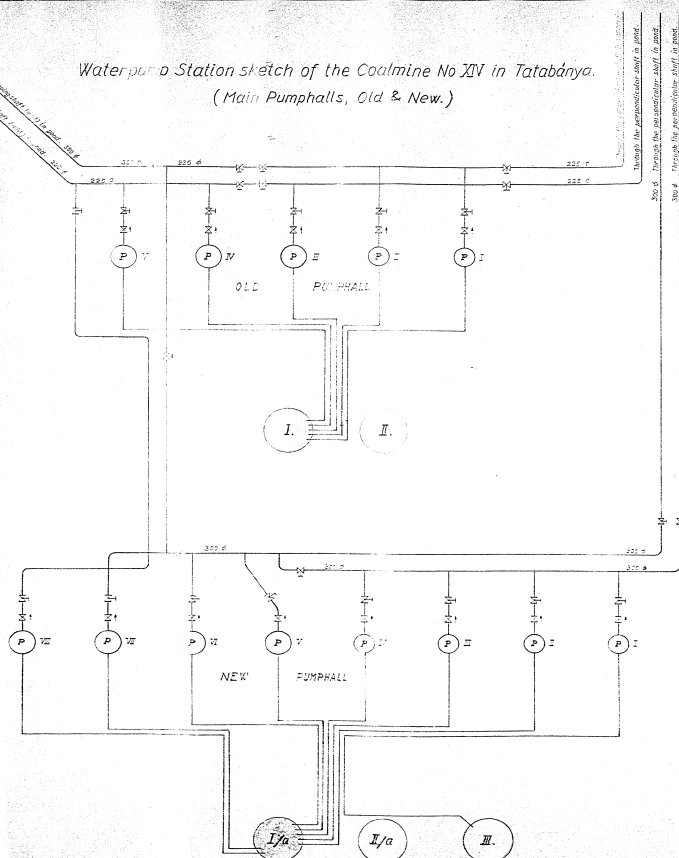
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Water pump Station sketch of the Coalmine No XIV in Tatabánya.
(Main Pump-halls, Old & New.)



NOTES.

Pumpset & Pump No.	Pump Production	Pump Output l/min	Pump Pressure kg/cm ²	Pump Height m	Pump Production	Pump Production	Motor Voltage kV	Motor Power kW	
Old # I	Erhardt Sener	2.5	660.5	240	24	787.44	Brown Boveri	3.5	1440
Old # II	Erhardt Sener	2.5	660.5	240	24	787.44	Brown Boveri	3.5	1440
Old # III	Dorogi	5	1321	240	24	787.44	Brown Boveri	3.5	1440
Old # IV	Dorogi	5	1321	240	24	787.44	Brown Boveri	3.5	1440
Old # V	Márvag	5	1321	180	18	590.58	Brown Boveri	3.5	1440
New # I	Jeger	2.5	660.5	220	22	721.82	Siemens	3.5	1440
New # II	Jeger	2.5	660.5	220	22	721.82	Siemens	3.5	1440
New # III	Jeger	2.5	660.5	220	22	721.82	Siemens	3.5	1440
New # IV	Jeger	5	1321	240	24	787.44	Siemens	3.5	1440
New # V	Dorogi	5	1321	240	24	787.44	Siemens	3.5	1440
New # VI	Dorogi	5	1321	240	24	787.44	Siemens	3.5	1440
New # VII	Dorogi	5	1321	240	24	787.44	Siemens	3.5	1440
New # VIII	Dorogi	5	1321	240	24	787.44	Siemens	3.5	1440
New # IX	Dorogi	5	1321	240	24	787.44	Siemens	3.5	1440
New # X	Dorogi	5	1321	240	24	787.44	Siemens	3.5	1440
New # XI	Dorogi	5	1321	240	24	787.44	Siemens	3.5	1440
New # XII	Dorogi	5	1321	240	24	787.44	Siemens	3.5	1440

The electrical network's frequency = 50 Cycles; this frequency is used for the pumps, watermeters and electrical light. The motors are all 3 phase asynchronous self-excited synchronous motors. The old pump-halls #V 5 m³/min x 180 m Pump will change to 5 m³/min x 180 m Pump. The Dorogi type Pumps made in Hungary, in Coalmining Institute of Leningrad.

— tube Inside Diameter in millimeter size.

— Highpressure Water-tubes.

— The pump's vacuum-tubes.

3+ automatic check-valve (uniflow-valve)

3+ hand-valve

I The Old Pump-hall's fountain of the # I Waterstocker (Kutermeyer's)

I/a The New Pump-hall's fountain of the # I Waterstocker

II The Old Pump-hall's fountain of the # II Waterstocker

II/a The New Pump-hall's fountain of the # II Waterstocker

III The New Pump-hall's fountain of the # III Waterstocker

The # I and # II waterstockers (Kutermeyer's) are 10 m³ capacity.

The # III waterstocker (Kutermeyer's) are 10 m³ capacity.

The Old Pump-hall's full-capacity is 10 m³/min x 2284 gpm.

The New Pump-hall's full-capacity is 30 m³/min x 7926 gpm.